Mass Flow Meter

High-accuracy, multi-parameter flow measurement in real time

Accurate
Repeatable
Durable

PSIA   °C   TARE V
+13.55   +28.53

+0 SLPM
Air

+0 +0
LPM SLPM TOTAL

PSIA   °C   TARE V
+13.55   +28.53

+0.0 SuLPM
Air

+0.0 +0.0
μLPM SuLPM TOTAL

FLOW →

FLOW →

M-5000SLPM

M-0.5SCCM
for flows as low as 2.5 sμlm

The Fastest Flow Controller Company in the World!

ALICAT
SCIENTIFIC

alicat.com/meter

MW Series
with low
pressure drop

(shown with optional
color display)

MS Series
for aggressive
gases

(shown with optional
15-pin connector)

MB Series
rechargeable
battery

See the video!

Mass Flow Meters

Accurate in every situation! Monitor mixed gases in changing process conditions.

Making You Faster

- **<10 ms speed of response.**
- **No warm-up required**: ready to measure in one second.
- **Stand-alone unit**: use with or without a computer or PLC.
- **All flow data** visible on one screen (flow, pressure, temp).
- **Digital and analog outputs.**

Quick Specs

Accuracy: 0.6% of reading on most flow instruments NIST-traceable.
Linear range: 0.01-100% of full scale, for any range from 0-0.5 sccm to 0-5000 slpm.
Multi-gas calibration: 98-130 gases preloaded, plus COMPOSER™ gas composition firmware.
Lifetime warranty: unaffected by bumps, humidity or changes in orientation.

Tailored for You

MW Low Pressure Drop
Measure with minimal affect on pressure or volumetric flow rates and even faster fluidic response. Max range: 0-500 slpm.

MS Anti-Corrosive
Withstand corrosion caused by aggressive gases with durable 316L stainless steel.

MB Portable
Rechargeable battery provides 18 hours of operation for easy flow verification.

L Liquid Flows
Measure liquid flows with the fastest response time available in a liquid flow meter (20 ms). Available in ranges from 0-0.5 ccm to 0-10 lpm.

COMMON OPTIONS:

Bidirectional Flow Calibration enables full-scale readings in both flow directions.
Integrated Flow Totalizer provides cumulative readings of total quantity flowed over time.
Backlit Color Display shines in low lighting.
CSA Class 1 Div 2 (ATEX Zone 2) Classification permits operation in hazardous environments.
Weatherproof, watertight enclosure (IP67) for operation in outdoor or dusty environments.
Industrial communications: EtherNet/IP, DeviceNet, PROFIBUS, or Modbus

Sample Application

Faster Leak Testing

Accurately measure leak rates as low as 2.5 microliters per minute with repeatable results. With pressure precisely regulated at the device under test, an Alicat mass flow meter reveals device leak-through rates in real time.

DUT

Mass flow
meter

Pressure
controller